

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------|---------|------------------|
| L1 | 7632 | (usage or utilization or frequency) near5 (object) and (web or page or content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:15 |
| L2 | 117 | 717/???ccls. and (usage or utilization or frequency) near5 (object) and (web or page or content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:15 |
| L3 | 8 | 717/127.ccls. and (usage or utilization or frequency) near5 (object) and (web or page or content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:15 |
| L4 | 8 | 717/154.ccls. and (usage or utilization or frequency) near5 (object) and (web or page or content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:16 |
| L5 | 3 | 717/141.ccls. and (usage or utilization or frequency) near5 (object) and (web or page or content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:23 |
| L6 | 18 | I3 I4 I5 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:16 |
| L7 | 8 | (usage or utilization or frequency) same ("object graph") and (web or page or content) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:23 |
| S1 | 236 | 717/141.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:05 |
| S2 | 216 | 717/158.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:05 |

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|-----|-------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| S3 | 213 | 717/159.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:05 |
| S4 | 82 | 717/161.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:05 |
| S5 | 200 | 717/104.ccls. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:05 |
| S6 | 39180 | (optimiz\$5 or optimis\$5) same (((memory or data) near3 access\$3) or read\$3 or writ\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:07 |
| S7 | 3489 | (optimiz\$5 or optimis\$5) same (data near3 access\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/17 16:51 |
| S8 | 938 | (optimiz\$5 or optimis\$5) near5 (data near3 access\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/02 10:14 |
| S9 | 266 | (optimiz\$5 or optimis\$5) adj (data near3 access\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:09 |
| S10 | 94 | (optimiz\$5 or optimis\$5) adj (data adj access\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:09 |
| S11 | 13 | (optimiz\$5 or optimis\$5) adj (data near3 access\$3) and ((data or pattern) near2 usage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:28 |
| S12 | 69 | "5379419".URPN. | USPAT | OR | OFF | 2004/08/10 10:33 |
| S13 | 6 | "6085035".URPN. | USPAT | OR | OFF | 2004/08/10 10:21 |

| | | | | | | |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| S14 | 0 | (optimiz\$5 or optimis\$5) adj (data near3 locality) and ((data or pattern) near2 usage) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:28 |
| S15 | 9 | (optimiz\$5 or optimis\$5) adj (data near3 locality) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/10 10:28 |
| S16 | 69 | "5379419".URPN. | USPAT | OR | OFF | 2004/08/10 10:43 |
| S17 | 36 | profil\$3 near3 (data adj access\$3) and (usage or pattern) | USPAT | OR | OFF | 2004/08/10 10:44 |
| S18 | 57 | profil\$3 near3 (data adj access\$3) | USPAT | OR | OFF | 2004/08/10 11:36 |
| S19 | 3 | "6321240".URPN. | USPAT | OR | OFF | 2004/08/10 11:29 |
| S20 | 0 | "6594678".URPN. | USPAT | OR | OFF | 2004/08/10 11:31 |
| S21 | 3 | ("6209066" "6321240" "6330556").PN. | USPAT | OR | OFF | 2004/08/10 11:32 |
| S22 | 14 | instrument\$3 near3 (data adj access\$3) | USPAT | OR | OFF | 2004/08/10 11:37 |
| S23 | 12 | (instrument\$3 near3 (data adj access\$3)) not (profil\$3 near3 (data adj access\$3)) | USPAT | OR | OFF | 2004/08/10 11:44 |
| S24 | 4 | "5937191".URPN. | USPAT | OR | OFF | 2004/08/10 11:39 |
| S25 | 0 | "6430741".URPN. | USPAT | OR | OFF | 2004/08/10 11:42 |
| S26 | 9 | ("5274811" "5335344" "5412799" "5450586" "5659752" "5691920" "5835702" "5857104" "6189072").PN. | USPAT | OR | OFF | 2004/08/10 11:42 |
| S27 | 237 | code adj analysis and (access\$3 or usage) | USPAT | OR | OFF | 2004/08/10 11:44 |
| S28 | 28 | code adj analysis same (access\$3 or usage) | USPAT | OR | OFF | 2004/08/10 11:45 |
| S29 | 27 | (code adj analysis same (access\$3 or usage)) not (instrument\$3 near3 (data adj access\$3)) not (profil\$3 near3 (data adj access\$3)) | USPAT | OR | OFF | 2004/08/10 11:45 |
| S30 | 3500 | (optimiz\$5 or optimis\$5) same (data near3 access\$3) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/17 16:51 |

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|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| S31 | 65 | generat\$3 near2 ((business or enterprise) near2 model) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/17 16:52 |
| S32 | 4 | ((optimiz\$5 or optimis\$5) same (data near3 access\$3)) and (generat\$3 near2 ((business or enterprise) near2 model)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/17 16:52 |
| S33 | 2 | "6240529".pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/08/18 15:10 |
| S34 | 4 | ("5752038" "6189069").pn. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:21 |
| S35 | 281 | (instrument\$3 or profil\$3 or trac\$3) and ("web server") and (cach\$3 or stor\$3) near3 ("proxy object" or object) and (local\$2 near2 access) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:24 |
| S36 | 0 | (instrument\$3 or profil\$3 or trac\$3) and ("web server") same (cach\$3 or stor\$3) near3 ("proxy object" or object) same (local\$2 near2 access) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:24 |
| S37 | 11 | (instrument\$3 or profil\$3 or trac\$3) and ("web server") same (cach\$3 or stor\$3) near3 ("proxy object" or object) and (local\$2 near2 access) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:25 |
| S38 | 186 | (instrument\$3 or profil\$3 or trac\$3) and ("web server") same (cach\$3 or stor\$3) near3 ("proxy object" or object) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:31 |
| S39 | 21 | ((instrument\$3 or profil\$3 or trac\$3) near5 usage) and ("web server") same (cach\$3 or stor\$3) near3 ("proxy object" or object) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:28 |
| S40 | 8 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 usage) and ("web server") same (cach\$3 or stor\$3) near3 ("proxy object" or object) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:28 |

| | | | | | | |
|-----|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| S41 | 120 | (instrument\$3 or profil\$3 or trace or traced or tracing) and ("web server") same (cach\$3 or stor\$3) near3 ("proxy object" or object) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:31 |
| S42 | 310 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3)) and (server) same (cach\$3 or stor\$3) near3 ("proxy object" or object) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:33 |
| S43 | 193 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3)) and (server) same (cach\$3 or stor\$3) near3 ("proxy object" or object) and (web adj (server or component or client)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:34 |
| S44 | 148 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3)) and ((cach\$3 or stor\$3) same ("proxy object" or object) same (web adj (server or component or client))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:35 |
| S45 | 51 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3)) and ((cach\$3 or stor\$3) near5 ("proxy object" or object) same (web adj (server or component or client))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2005/03/31 15:45 |
| S46 | 457 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3 or pattern)) and ((cach\$3 or stor\$3) near5 (proxy or object)) same (web or server or client or distributed) and (optimiz\$5 or optimal\$2) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/31 15:47 |
| S47 | 53 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3 or pattern)) and ((cach\$3 or stor\$3) near5 (proxy or object)) same (web or server or client or distributed) and (optimiz\$5 or optimal\$2) and (determin\$3 near3 policy) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/31 15:48 |
| S48 | 59 | ((instrument\$3 or profil\$3 or trace or traced or tracing) near5 (usage or history or access\$3 or pattern)) and ((cach\$3 or stor\$3) near5 (proxy or object)) same (web or server or client or distributed) and (optimiz\$5 or optimal\$2) and (cache near3 policy) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/31 15:48 |

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|-----|----|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----|-----|------------------|
| S49 | 24 | S47 and S48 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/03/31 15:48 |
| S50 | 3 | ("2002/0010798").URPN. | USPAT | OR | OFF | 2005/03/31 15:58 |
| S51 | 7 | ("20020010798" "20020048269" "20020133537" "20030023702" "6023726" "6098064" "6260061").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/03/31 16:09 |
| S52 | 9 | "usage pattern" same persistent | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/28 09:29 |
| S53 | 4 | ("6321240" "6098064").PN. | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/28 09:45 |
| S54 | 0 | ("6321240" "6098064").PN. AND (PERSISTENCE OR PERSISTENT) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/07/28 09:46 |
| S55 | 3 | ("20030110357" "6425057" "6651141").PN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/28 15:50 |
| S56 | 1 | "6098064".pn. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/28 15:50 |
| S57 | 46 | ("5442778" "5864340" "5991755" "6009452").PN. OR ("6098064").URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2005/07/28 15:50 |


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1 [Combining structure search and content search for the World-Wide Web](#)

Hermann Kaindl, Stefan Kramer, Luis Miguel Afonso

 May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space—structure in hypermedia systems: links, objects, time and space—structure in hypermedia systems**
Publisher: ACM Press

 Full text available: [pdf\(950.06 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Declarative specification of Web sites with S](#)

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

 March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(188.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)


S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

Keywords: Declarative query languages, Web-site management




3 [Catching the boat with Strudel: experiences with a Web-site management system](#)

Mary Fernández, Daniela Florescu, Jaewoo Kang, Alon Levy, Dan Suciu



 June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international**


conference on Management of data SIGMOD '98, Volume 27 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(1.81 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Strudel system applies concepts from database management systems to the process of building Web sites. Strudel's key idea is separating the management of the site's data, the creation and management of the site's structure, and the visual presentation of the site's pages. First, the site builder creates a uniform model of all data available at the site. Second, the builder uses this model to declaratively define the Web site's structure by applying a "site-definition query" ...

4 [Database techniques for the World-Wide Web: a survey](#) Daniela Florescu, Alon Levy, Alberto Mendelzon
September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3**Publisher:** ACM PressFull text available:  [pdf\(1.79 MB\)](#)Additional Information: [full citation](#), [citations](#), [index terms](#)**5 [Declarative specification of data-intensive Web sites](#)** Mary Fernández, Dan Suciu, Igor Tatarinov
December 1999 **ACM SIGPLAN Notices**, **Proceedings of the 2nd conference on Domain-specific languages PLAN '99**, Volume 35 Issue 1**Publisher:** ACM PressFull text available:  [pdf\(1.06 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Integrated information systems are often realized as data-intensive Web sites, which integrate data from multiple data sources. We present a system, called STRUDEL, for specifying and generating data-intensive Web sites. STRUDEL separates the tasks of accessing and integrating a site's data sources, building its structure, and generating its HTML representation. STRUDEL's declarative query language, called StruQL, supports the first two tasks. Unlike ad-hoc database queries ...


6 [Collaborative proxy system for distributed Web content transcoding](#) Valeria Cardellini, Philip S. Yu, Yun-Wu Huang
November 2000 **Proceedings of the ninth international conference on Information and knowledge management****Publisher:** ACM PressFull text available:  [pdf\(251.02 KB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**7 [Aurora: a conceptual model for Web-content adaptation to support the universal usability of Web-based services](#)** Anita W. Huang, Neel Sundaresan
November 2000 **Proceedings on the 2000 conference on Universal Usability**
Publisher: ACM Press

Full text available:  [pdf\(804.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Users of the World Wide Web (Web) have a diverse set of needs, abilities, and goals. To achieve universal usability, the Web today calls for the development of new systems that enable the same content to be adapted for display according to these various needs. This paper presents Aurora, an extensible transcoding system that targets and adapts content in existing Web pages to help the broadest population of users, particularly in the disabled community, to obtain various Web-based services, s ...


Keywords: Web accessibility, Web intermediaries, XML transcoding, adaptability, disabled users

8 [The content and access dynamics of a busy Web site: findings and implications](#)

 Venkata N. Padmanabhan, Lili Qiu


August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(820.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)


In this paper, we study the dynamics of the MSNBC news site, one of the busiest Web sites in the Internet today. Unlike many other efforts that have analyzed client accesses as seen by proxies, we focus on the server end. We analyze the dynamics of both the server content and client accesses made to the server. The former considers the content creation and modification process while the latter considers page popularity and locality in client accesses. Some of our key results are: (a) files ...

9 [A layered architecture for querying dynamic Web content](#)

 Hasan Davulcu, Juliana Freire, Michael Kifer, I. V. Ramakrishnan

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.56 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)


The design of webbases, database systems for supporting Web-based applications, is currently an active area of research. In this paper, we propose a 3-year architecture for designing and implementing webbases for querying dynamic Web content(i.e., data that can only be extracted by filling out multiple forms). The lowest layer, virtual physical layer, provides navigation independence by shielding the user from the complexities associated wi ...

10 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren


November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

11 Silk from a sow's ear: extracting usable structures from the Web

 Peter Pirolli, James Pitkow, Ramana Rao

 April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**


Publisher: ACM Press


Full text available:  [pdf\(1.26 MB\)](#)  [html \(35.72 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: World Wide Web, hypertext, information visualization

12 Tools and approaches for developing data-intensive Web applications: a survey

 Piero Fraternali

 September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(524.80 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...


Keywords: HTML, Intranet, WWW, application, development

13 Constructing, organizing, and visualizing collections of topically related Web resources

 Loren Terveen, Will Hill, Brian Amento

 March 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(303.62 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site


Keywords: cocitation analysis, collaborative filtering, computer supported cooperative work, information visualization, social filtering, social network analysis

14 A Web Odyssey: from Codd to XML

 Victor Vianu

 May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**


Publisher: ACM Press

Full text available:  [pdf\(282.10 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Searching the Web

 August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

 **Publisher:** ACM Press

Full text available:  [pdf\(319.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine

16 A scalable and highly available system for serving dynamic data at frequently accessed web sites

Jim Challenger, Paul Dantzig, Arun Iyengar

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  [pdf\(195.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper describes the system and key techniques used for achieving performance and high availability at the official Web site for the 1998 Olympic Winter Games which was one of the most popular Web sites for the duration of the Olympic Games. The Web site utilized thirteen SP2 systems scattered around the globe containing a total of 143 processors. A key feature of the Web site was that the data being presented to clients was constantly changing. Whenever new results were entered into the sys ...

17 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**


 **Publisher:** ACM Press

Full text available:  [pdf\(613.63 KB\)](#)  [html](#) Additional Information: [full citation](#), [references](#), [citations](#), [index](#)

[\(2.78 KB\)](#)[terms](#)**18** [Model-driven development of Web applications: the AutoWeb system](#)


 Piero Fraternali, Paolo Paolini
 October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.94 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),
[citations](#), [index terms](#)

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...


Keywords: HTML, WWW, application, development, intranet, modeling**19** [Design principles for data-intensive Web sites](#)

 Stefano Ceri, Piero Fraternali, Stefano Paraboschi
 March 1999 **ACM SIGMOD Record**, Volume 28 Issue 1


Publisher: ACM Press

Full text available:  [pdf\(716.61 KB\)](#) Additional Information: [full citation](#), [citations](#), [index terms](#)

20 [5b---Persistence and Change: Perception of content, structure, and presentation changes in Web-based hypertext](#)

 Luis Francisco-Revilla, Frank M. Shipman, Richard Furuta, Unmil Karadkar, Avital Arora
 September 2001 **Proceedings of the twelfth ACM conference on Hypertext and Hypermedia**

Publisher: ACM Press





Full text available:  [pdf\(339.22 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#),
[citations](#), [index terms](#)

The Web provides access to a wide variety of information but much of this information is fluid; it changes, moves, and occasionally disappears. Bookmarks, paths over Web pages, and catalogs like Yahoo! are examples of page collections that can become out-of-date as changes are made to their components. Maintaining these collections requires that they be updated continuously. Tools to help in this maintenance require an understanding of what changes are important, such as when pages no longer ...

Keywords: Walden's paths, fluid documents, managing fluid Web pages, meta-document, perception of change

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Relevance scale ☐ ☐ ☐1 [Declarative specification of Web sites with S](#)

Mary Fernández, Daniela Florescu, Alon Levy, Dan Suciu

 March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 9 Issue 1
Publisher: Springer-Verlag New York, Inc.
 Full text available: [pdf\(188.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

S is a system for implementing *data-intensive* Web sites, which typically integrate information from multiple data sources and have complex structure. S's key idea is separating the management of a Web site's data, the specification of its content and structure, and the visual representation of its pages. S provides a declarative *query language* for specifying a site's content and structure, and a simple *template language* for specifying a site's HTML representation. This paper ...

Keywords: Declarative query languages, Web-site management2 [Catching the boat with Strudel: experiences with a Web-site management system](#)

Mary Fernández, Daniela Florescu, Jaewoo Kang, Alon Levy, Dan Suciu


 June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data SIGMOD '98**, Volume 27 Issue 2
Publisher: ACM Press
 Full text available: [pdf\(1.81 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Strudel system applies concepts from database management systems to the process of building Web sites. Strudel's key idea is separating the management of the site's data, the creation and management of the site's structure, and the visual presentation of the site's pages. First, the site builder creates a uniform model of all data available at the site. Second, the builder uses this model to declaratively define the Web site's structure by applying a "site-definition query" ...

3 Database techniques for the World-Wide Web: a survey


 Daniela Florescu, Alon Levy, Alberto Mendelzon
September 1998 **ACM SIGMOD Record**, Volume 27 Issue 3

Publisher: ACM Press


Full text available:  [pdf\(1.79 MB\)](#)

Additional Information: [full citation](#), [citations](#), [index terms](#)

4 Declarative specification of data-intensive Web sites

 Mary Fernández, Dan Suciu, Igor Tatarinov
December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages PLAN '99**, Volume 35 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.06 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Integrated information systems are often realized as data-intensive Web sites, which integrate data from multiple data sources. We present a system, called STRUDEL, for specifying and generating data-intensive Web sites. STRUDEL separates the tasks of accessing and integrating a site's data sources, building its structure, and generating its HTML representation. STRUDEL's declarative query language, called StruQL, supports the first two tasks. Unlike ad-hoc database queries ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#)



Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Computing curricula 2001

 September 2001 **Journal on Educational Resources in Computing (JERIC)**

Publisher: ACM Press


Full text available:  [pdf\(613.63 KB\)](#)  [html \(2.78 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 Model-driven development of Web applications: the AutoWeb system


Piero Fraternali, Paolo Paolini


-  October 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 4
Publisher: ACM Press

Full text available:  pdf(6.94 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...


Keywords: HTML, WWW, application, development, intranet, modeling


- 8 [A layered architecture for querying dynamic Web content](#)
 Hasan Davulcu, Juliana Freire, Michael Kifer, I. V. Ramakrishnan
 June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2
Publisher: ACM Press



Full text available:  pdf(1.56 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The design of webbases, database systems for supporting Web-based applications, is currently an active area of research. In this paper, we propose a 3-year architecture for designing and implementing webbases for querying dynamic Web content(i.e., data that can only be extracted by filling out multiple forms). The lowest layer, virtual physical layer, provides navigation independence by shielding the user from the complexities associated wi ...



- 9 [A Web Odyssey: from Codd to XML](#)
 Victor Vianu
 May 2001 **Proceedings of the twentieth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**
Publisher: ACM Press

Full text available:  pdf(282.10 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



- 10 [Silk from a sow's ear: extracting usable structures from the Web](#)
 Peter Pirolli, James Pitkow, Ramana Rao
 April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**
Publisher: ACM Press

Full text available:  pdf(1.26 MB)  html (35.72 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



Keywords: World Wide Web, hypertext, information visualization

11 The content and access dynamics of a busy Web site: findings and implications Venkata N. Padmanabhan, Lili QiuAugust 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4**Publisher:** ACM PressFull text available:  pdf(820.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we study the dynamics of the MSNBC news site, one of the busiest Web sites in the Internet today. Unlike many other efforts that have analyzed client accesses as seen by proxies, we focus on the server end. We analyze the dynamics of both the server content and client accesses made to the server. The former considers the content creation and modification process while the latter considers page popularity and locality in client accesses. Some of our key results are: (a) files ...

12 Tools and approaches for developing data-intensive Web applications: a survey Piero FraternaliSeptember 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3**Publisher:** ACM PressFull text available:  pdf(524.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...


Keywords: HTML, Intranet, WWW, application, development**13** IO-Lite: a unified I/O buffering and caching system Vivek S. Pai, Peter Druschel, Willy ZwaenepoelFebruary 2000 **ACM Transactions on Computer Systems (TOCS)**, Volume 18 Issue 1**Publisher:** ACM PressFull text available:  pdf(196.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents the design, implementation, and evaluation of IO -Lite, a unified I/O buffering and caching system for general-purpose operating systems. IO-Lite unifies all buffering and caching in the system, to the extent permitted by the hardware. In particular, it allows applications, the interprocess communication system, the file system, the file cache, and the network subsystem to safely and concurrently share a single physical copy of the data. Protection and ...

Keywords: I/O buffering, caching, networking, zero-copy

14 Context-based prefetch – an optimization for implementing objects on relations


Philip A. Bernstein, Shankar Pal, David Shutt

December 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 9 Issue 3**Publisher:** Springer-Verlag New York, Inc.Full text available:  pdf(142.24


KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)


When implementing persistent objects on a relational database, a major performance issue is prefetching data to minimize the number of round-trips to the database. This is especially hard with navigational applications, since future accesses are unpredictable. We propose the use of the context in which an object is loaded as a predictor of future accesses, where a context can be a stored collection of relationships, a query result, or a complex object. When an object O's state is loaded, similar ...

Keywords: Caching, Object-oriented database, Object-relational mapping, Prefetch15 Engineering server-driven consistency for large scale dynamic Web services Jian Yin, Lorenzo Alvisi, Mike Dahlin, Arun IyengarApril 2001 **Proceedings of the 10th international conference on World Wide Web****Publisher:** ACM PressFull text available:  pdf(291.44

KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** Web cache consistency, dynamic content, performance, scalability, volume lease16 Integrating the document object model with hyperlinks for enhanced topic distillation and information extraction Soumen ChakrabartiApril 2001 **Proceedings of the 10th international conference on World Wide Web****Publisher:** ACM PressFull text available:  pdf(369.63

KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** document object model, minimum description length principle, segmentation, topic distillation17 Searching the Web August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1**Publisher:** ACM PressFull text available:  pdf(319.98

KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We offer an overview of current Web search engine design. After introducing a generic search engine architecture, we examine each engine component in turn. We cover crawling, local Web


page storage, indexing, and the use of link analysis for boosting search performance. The most common design and implementation techniques for each of these components are presented. For this presentation we draw from the literature and from our own experimental search engine testbed. Emphasis is on introduci ...

Keywords: HITS, PageRank, authorities, crawling, indexing, information retrieval, link analysis, search engine


18 STRUDEL: a Web site management system

 Mary Fernandez, Daniela Florescu, Jaewoo Kang, Alon Levy, Dan Suciu
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available:  pdf(596.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Web mining research: a survey


 Raymond Kosala, Hendrik Blockeel
June 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 1

Publisher: ACM Press


Full text available:  pdf(1.58 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

Keywords: Web, data mining, information extraction, information retrieval

20 Ontology-supported and ontology-driven conceptual navigation on the World Wide Web

 Michel Crampes, Sylvie Ranwez
May 2000 **Proceedings of the eleventh ACM on Hypertext and hypermedia**

Publisher: ACM Press

Full text available:  pdf(198.01 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)





Keywords: WWW, XML, adaptive hypertext, conceptual navigation, metadata, narration, ontology, time optimization

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